

Contents

Volume 4, Number 1, 1990

i In this issue . . .

Editorial

- 3 Formal systems in Artificial Intelligence: an illustration using semigroup, automata and language theory *P. T. Hadingham*
- 21 Artificial Intelligence research at the National University of Singapore
K. Ranai, C. L. Tan & S. C. Chan
- 39 Report on AI research in progress in New Zealand universities
W. P. Yeap & R. Mugridge

VIEWPOINT

- 47 Artificial Intelligence: A Far East Perspective *Y. S. Moon*
- 53 Singapore's great leap: information technology in context *G. Sussman*

BOOK REVIEWS

- 61 Artificial Intelligence and Education *D. Gilmore, G. Cumming & S. Ross*
- 66 Artificial Intelligence Programming Languages *J. Rosbottom, E. Keravnou, T. Dodd & M. Merabti*
- 73 Computational Linguistics *G. Byron, L. Bolc & I. Crookston*

Volume 4, Number 2, 1990

iii In this issue . . .

- 79 Nonmonotonic reasoning, nonmonotonic logics and reasoning about change *J. Bell*
- 109 Numerical and symbolic approaches to uncertainty management in AI
D. A. Clark

VIEWPOINT

- 147 'The strange story of the Preceptron' *R. S. Forsyth*

Volume 4, Number 3, 1990

v In this issue . . .

Response Time

Qualitative Application Languages for Knowledge Acquisition

Stuart H. Rubin

A viewpoint on Singapore C. K. Yuen

A reply to C. K. Yuen G. Sussman

157 A second reply to C. K. Yuen Colin Beardon

163 Nonmonotonic Reasoning F. M. Donini, M. Lenzerini, D. Nardi,
F. Pirri & M. Schaerf

211 Issues of Non-Determinism in PROLOG and the Committed Choice
Non-Deterministic Logic Languages R. Trehan & P. F. Wilk

BOOK REVIEWS

233 Artificial Intelligence and its Applications H. Weston Rooms, D. West,
T. Gillie & J. MacDonald

239 Robotics and Vision J. Billingsley

243 Artificial Intelligence Programming Languages T. Dodd & D. Long

247 Theoretical Artificial Intelligence A. Ramsay

Volume 4, Number 4, 1990

vii In this issue . . .

251 Intelligent Tutoring Systems: an overview Hyacinth S. Nwana

279 Planning in a commonsense framework Carlos Pinto-Ferreira &
João Pavão Martins

BOOK REVIEWS

295 Artificial Intelligence and Education T. Drapkin

297 Artificial Intelligence and Philosophy A. Ramsay

302 Artificial Intelligence and its Applications S. Hedges, A. P. Magill,
E. P. Curran, M. Merabti, M. Davies, T. Dodd & T. C. Fogarty

316 Books recently received

321 Index

